

# Betco Corporation

## Material Safety Data Sheet

N/A=Not Applicable

(Prepared According To 29 CFR 1910.1200)

Effective Date: 2/23/96

**SECTION 1 - PRODUCT IDENTIFICATION**

Product Number: 181

Product Name: Glass Cleaner

Generic Name: Ammoniated Glass Cleaner

Supplier's Name: Betco Corporation

Supplier's Address: 1001 Brown Avenue, Toledo, Ohio 43607

Chemical Family: N/A

Formula: N/A

Phone Number: (419) 241-2156

Emergency:

**NPCA Hazardous Materials Identification System**

Health	1
Flammability	2
Reactivity	0
Maximum Personal Protection	A

**SECTION 2 - INGREDIENTS**

CHEMICAL NAME	CAS NO.	WT. %	PEL	TWA-TLV	STEL-TLV	CARCINOGEN
Water	7732-18-5	to 100				No
Isopropyl Alcohol	67-63-0	45 to 50	400 ppm	400 ppm	500 ppm	No
Ammonium Hydroxide	1336-21-6	20 to 25	50 ppm	50 ppm	35 ppm	No
Monoethanolamine	141-43-5	5 to 10	6 ppm	3 ppm	6 ppm	No
Tetrasodium EDTA	64-02-8	0 to 5				No
Nonionic Surfactant	34398-01-1	0 to 5				No
Anionic Surfactant	25155-30-0	0 to 5				No
Dye	N/A	0 to 5				No

**SECTION 3 - PHYSICAL DATA**

Boiling Range: 209°F initial  
Vapor Pressure: 25mm Hg @ 68°F  
% Volatile: 100  
Solubility In Water: 100%  
Physical Description: Thin clear blue liquid with ammonia odor.

Specific Gravity: .851  
Vapor Density: (Air=1): >1  
pH: 12.0  
Evaporation Rate: (Water=1): >1

**SECTION 4 - FIRE AND EXPLOSION HAZARD DATA**

Concentrate Flash Point (Method): N/A  
Propellant Flash Point (Method): N/A  
Flash Point (Method): 123°F (TCC)  
Extinguishing Media: N/A  
Special Fire Fighting Procedures: N/A  
Unusual Fire and Explosion Hazards: N/A

Explosive Limits  
Upper: N/A  
Lower: N/A

**SECTION 5 - REACTIVITY DATA**

Stability: Stable.  
Compatibility (Materials to Avoid): None known.  
Hazardous Polymerization: Will not occur.  
Hazardous Decomposition Products: None known.

**SECTION 6 - STORAGE AND HANDLING INFORMATION**

Precautions to be Taken in Handling and Storage:  
Keep out of reach of children.  
Keep container closed during storage. For institutional and commercial use.

**SECTION 7 - HEALTH HAZARDS AND FIRST AID**

Effects of Overexposure:

Primary Route of Entry:

Skin: Skin irritant. May cause moderate redness and swelling.  
Eyes: Eye irritant. Liquid and mist may damage the eyes, causing corneal injury.  
Inhalation: Vapors may be irritating to mucous membranes of the nose, throat, and lungs.  
Ingestion: May cause headache, dizziness, nausea, vomiting, and diarrhea.

First Aid Procedures:

Skin: Flush with large quantities of water. Seek medical attention if irritation persists.  
Eyes: Flush eyes with large quantities of water. Seek medical attention if irritation persists.  
Inhalation: Get to fresh air. Seek medical attention if irritation persists.  
Ingestion: Drink two glasses of water and induce vomiting. Seek medical attention immediately.

**SECTION 8 - SPECIAL PROTECTION INFORMATION**

Respiratory Protection: Use with adequate ventilation.

Protective Gloves: Waterproof recommended.

Other Protective Equipment: N/A

Ventilation: Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

Eye Protection: Safety glasses recommended.

**SECTION 9 - SPILL OR LEAK PROCEDURES**

Steps to be Taken in Case Material is Released or Spilled:

Mop up or otherwise absorb and hold for disposal.

Waste Disposal Method:

Any method in accordance with applicable laws.